

# BASIC ULTRASOUND TABLE

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## INSTALLATION/ OPERATION MANUAL

056-605

056-609

056-613



# BIODEX

Biomed Medical Systems, Inc.

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**This manual covers installation and operation procedures for the following products:**

- #056-605 Table, Ultrasound, Basic
- #056-609 Table, Ultrasound, Basic  
*Includes: Side Rails*
- #056-613 Table, Ultrasound, Basic  
*with Convenience Package*  
*Includes: Side Rails, Stirrups and IV Pole*

**INTRODUCTION**

The Basic Ultrasound Table features three primary positions: horizontal, chair and Trendelenburg.

A convenient and easy-to-operate hydraulic foot pump adjusts table height during patient transfers and scanning procedures. Trendelenburg positioning is easily performed with a smooth-turning hand crank. Ankle straps, located at the underside of the leg section, prevent patient sliding during Trendelenburg positioning. Fowler positioning is accommodated with preset stops at 0°, 15°, 35°, 55° and 80°. The tabletop's hourglass shape narrows to 19 inches, providing comfortable scanning probe positioning at and below the plane of the tabletop. The leg section unlocks and swings down for chair positioning, or for positioning with optional stirrups.

Patient comfort during lengthy procedures is assured by two-inch thick table padding covered in durable and easy-to-clean Naugahyde®. Two adjustable straps with Velcro® hook and loop fastening are provided for increased patient stability and comfort. Five-inch locking swivel casters provide smooth and secure table positioning. Optional folding side rails drop down and out of the way for unobstructed access to the patient.

**GENERAL SAFETY CONSIDERATIONS**



**CAUTION:** Failure to follow the instructions in this manual could result in injury to the patient, yourself or others.

1. Ensure that the casters are locked prior to placing the patient on or removing the patient from the table.
2. Never place a patient on or remove a patient from the table when it is in a Trendelenburg position.
3. The table is designed to hold 350 lbs. maximum. Exceeding this limit could cause damage to the table which could result in injury.
4. Never allow anyone to sit on the leg support. Its maximum load is 75 pounds. Patients should always sit on the central seat cushion prior to laying flat on the table.
5. Use the ankle straps when placing a patient in a Trendelenburg position.
6. The patient restraining straps are intended for use only as a means to limit patient motion during imaging for improved image quality. They are not intended to protect uncontrolled patients from hazards such as entrapment by moving equipment, or falling off the table.
7. The casters provided on this table are not intended to be used for transporting the patient outside the imaging room.
8. Periodically inspect the table for proper operation and damage. Remove the table from service for further inspection and repair whenever any of the following conditions are detected:

- Excessive play or looseness in any of the table motions
- Any motion binding or difficult to move
- Downward drifting of the tabletop
- Damaged or loose casters or caster wheel locks
- Any signs of damage to the table support structure such as cracks, bent parts or looseness.

See the "Maintenance" section of this manual for further considerations.

**CONSIDÉRATIONS GÉNÉRALES DE SÉCURITÉ**



**ATTENTION:** Le non-respect des consignes de ce manuel peut provoquer des blessures au patient, à vous-même et à d'autres.

1. S'assurer que les roues sont verrouillées avant de placer le patient sur la table ou de l'en retirer.
2. Lorsque la table est en position Trendelenburg, ne jamais placer le patient ni l'en retirer.
3. La capacité maximale de la table est de 159 kg (350 lb). Ne pas dépasser cette limite afin d'éviter d'endommager la table, ce qui pourrait causer des blessures.
4. Ne jamais laisser personne s'asseoir sur le support des jambes ou du dos. Sa charge maximale est de 34 kg (75 lb). Les patients doivent toujours s'asseoir sur le coussin de siège central avant de s'étendre à plat sur la table.
5. Utiliser les courroies de retenue du patient ainsi les courroies de cheville pour placer un patient en position de Trendelenburg.
6. Les courroies de retenue du patient n'ont pour seul but que de limiter les déplacements du patient durant la visualisation en vue d'une image de qualité supérieure. Ils n'ont pas pour but de protéger les patients sans contrôle des risques comme celui de se coincer contre un appareil en mouvement, ou de tomber de la table.
7. Les roulettes dont cette table est pourvue ne sont pas destinées à être utilisées pour transporter le patient en dehors de la salle de visualisation.
8. Examiner périodiquement la table pour s'assurer qu'elle fonctionne adéquatement et qu'elle n'est pas abîmée. Retirer la table du service pour examen ultérieur et réparation si on détecte l'une quelconque des conditions suivantes:

- Jeu excessif ou desserrage dans l'un quelconque des déplacements de la table.
- Toute gêne ou difficulté de mouvement.
- Abaissement inopiné de la table.
- Roulettes ou verrous de roulette endommagés ou desserrés.
- Tous signes de dommages à la structure de support de la table, par exemple les fissures, les pièces pliées ou desserrées, notamment dans le secteur de la charnière pour le dossier.

Se reporter à la section Entretien de ce manuel pour autres considérations.

## TABLE ORIENTATION

The Basic Adjustable Height Ultrasound Table is oriented as shown in Figure 1. The crank handle for Trendelenburg positioning is located on the front of the table. Standing in front of the table, the cushion to the left is the back, the central cushion is the seat, and to the right is the leg support. There are two restraining straps; one at the base of the back cushion, the other at the seat, as shown. There are also ankle straps at the end of the leg support.

For convenience, it is possible to reverse the head to foot position of the table. To do so, remove the guide tube, rotate the table 180°, and then attach the guide tube at the other end where the hole is provided. Adjust the tube to minimize binding.



Figure 1. Table orientation.

## OPERATING INSTRUCTIONS

### Anchoring the Table

(See Figure 2.)

Each of the four casters on the table has a brake which simultaneously locks the wheel and swivel into position, thereby securely anchoring the table in place.

To lock the caster, step on the locking lever. Step on the release button to free it.

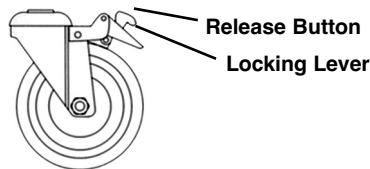


Figure 2. Anchoring the table.

### Vertical Height Adjustment

(See Figure 3.)

To raise the tabletop of the Ultrasound Table, step on the Foot Pump Lever and pump it until the table reaches the desired height. To lower the tabletop, press and hold the Foot Pump Lever all the way down until the table lowers to the desired height.

**NOTE:** Even though the table may be raised or lowered when it is in any of the three scanning positions, for patient safety we recommend that you only make vertical adjustments with the table in the normal position.

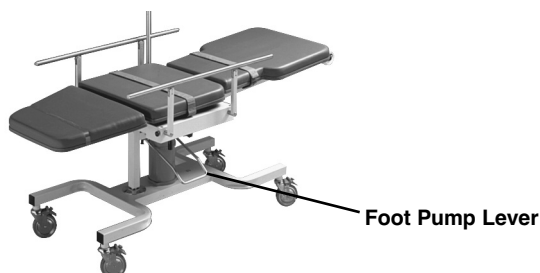


Figure 3. Vertical height adjustment.

## Positions

The Basic Adjustable Height Ultrasound Table can assume three positions: normal, Trendelenburg, and chair. To position the table in any of these positions, perform the following procedures

**NOTE:** Patients should be placed on the table so their head is on the back cushion.

### • Normal Position

The Normal Position for the table is horizontal. To place the table in this position, simply reverse the procedures for placing the table in the Trendelenburg and chair positions.

### • Trendelenburg Position

(See Figure 4.)

**NOTE:** Before adjusting the Trendelenburg position, be sure to place the table in the horizontal position prior to laying the patient on top of it. After placing the patient on the table, make sure to secure the restraining straps and the ankle straps around the patient.

The Trendelenburg position of the tabletop may be adjusted up to 15°. To do so, rotate the crank handle on the front of the table counter-clockwise. To adjust the tabletop so that it approaches the horizontal, simply rotate the crank handle in the opposite (clockwise) direction.

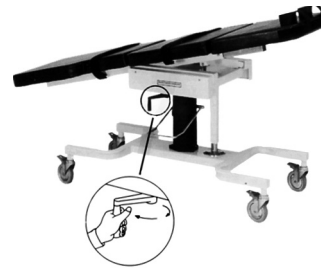


Figure 4. Trendelenburg position.

To place the Ultrasound Table in the chair position, you need to adjust the back and leg support. To do so, refer to the following procedures (and corresponding figures). With the back and leg support in the vertical position, the table will be in the chair position, as shown in Figure 5.

**NOTE:** If possible, when placing the table in the chair position, pre-position the back and leg support with the patient off the table.

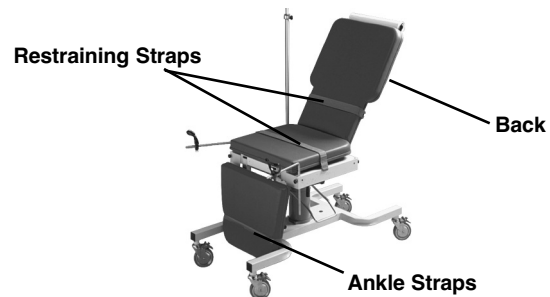


Figure 5. Chair position.

## Leg Support

(See Figure 6.)

The leg support has two positions: horizontal and vertical. To lower the leg support, grasp the cushion with both hands and pull it out far enough so that it swivels. Lower the cushion until it rests in the vertical position.

To return the leg support to the horizontal position, grasp the cushion with both hands and raise it to the horizontal position and then push on the end until it slides into the locking position.

**NOTE:** Make sure that the cushion slides all the way in for horizontal positioning of the tabletop. There is a spring assist to help slide the leg support into its home position.

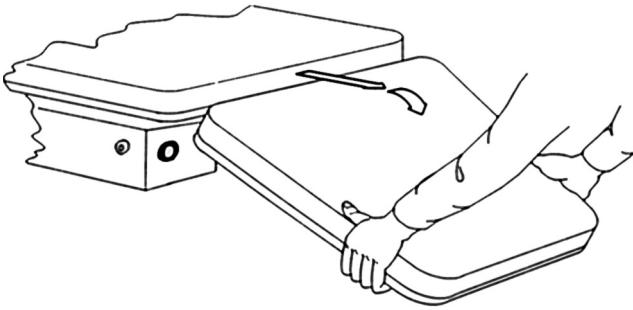


Figure 6. Leg support.

## Back

(See Figure 7.)

The back may be placed in five different angled positions: horizontal, 15°, 35°, 55°, and 80°.

**NOTE:** Make sure that you keep both hands on the back cushion whenever adjusting its position. Do not let it go.

**NOTE:** To raise the back, place both hands underneath the cushion and raise it so that it moves towards the vertical. The back will automatically lock into one of the angled positions. To move the back to the vertical position, another angled position, or lower it to the horizontal, raise the cushion slightly and pull on the hand grip to release the locking mechanism.

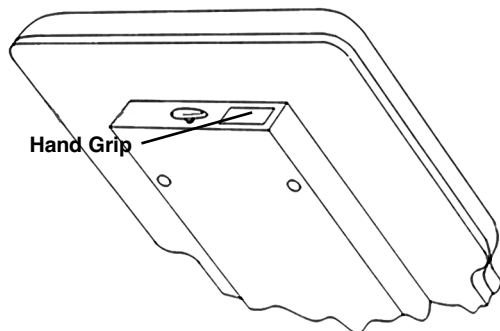


Figure 7. Back.

## MAINTENANCE

The Basic Adjustable Height Ultrasound Table is virtually maintenance free. Only a few simple steps are periodically required to maintain the table in "like new" condition:

1. As required, apply a thin film of lubricating oil to the vertical support shaft and guide tube.
2. As required, clean all exterior painted surfaces, cushions, and restraining straps with a mild detergent solution.
3. Periodically check casters - tighten if loose or wobbly.
4. Periodically check the condition of the restraining straps.
5. Periodically check bolts on the table - tighten if loose.
6. Periodically inspect all welds.

## SPECIFICATIONS

**Dimensions:** 75" l x 24" w (191 x 61 cm); 30" w (76 cm) with side rails; 19" w (48 cm) at narrow section

**Drop-Down Leg Section:** 14.5" l (37 cm), drops down for stirrup access

**Height Adjustable:** 29.5" to 37" (75 to 94 cm)

**Tabletop:** Three primary sections; torso section features contoured design with Fowler back positioning, center section remains fixed and leg section drops down for stirrup access

**Mattress:** 2" (5 cm) thick; foam rubber pad covered with durable Naugahyde®

**Upholstery Color:** Graphite

### Motions:

**Height Adjustable:** 29.5" to 37" (75 to 94 cm), hydraulic foot pump

**Trendelenburg:** 0° to 15°, hand crank

**Fowler Back:** Manually adjusted in five preset increments, 0°, 15°, 35°, 55° and 80°

**Wheels:** 5" (13 cm) locking casters

**Patient Restraints:** Two body straps

**Finish:** Powder coat

**Patient Capacity:** 350 lb (159 kg); weight tested to four times the patient load rating.

**Weight:** 335 lb (152 kg)

**Warranty:** One year

**Certifications:** ISO 9001: 2000 and ISO 13485: 2003

056-613 Table, Ultrasound, Basic  
with Convenience Package  
Includes: Side Rails, Stirrups and IV Pole

056-609 Table, Ultrasound, Basic  
Includes: Side Rails

056-605 Table, Ultrasound, Basic,  
All options available separately.\*

## OPTIONAL

056-608 Stirrups

056-607 IV Pole

058-610 Dispenser, Paper  
with Cutter Strap

Authorized European Community Representative:

PROTHIA

26, rue serpollet

75020 Paris, France

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## INSTRUCTIONS FOR MOUNTING AND USING ACCESSORIES

### Tools Required:

- 1/2" Allen wrench
- flathead screwdriver

### Fold-Down Side Rails (056-619) (For tables with serial numbers greater than 270291-512)

(See Figure 8.)

To mount the guardrails:

1. Remove and discard the two, black, 1/2" Allen head bolts from the table frame below the seat section of the table (this is where the siderails will mount).
2. Place the guardrail against the table frame so that, when secured, the rails will fold down toward the head end of the table. Align the holes in the guardrail's vertical support bars with the holes on the table frame.
3. Insert a spacer into the hole at the bottom of each vertical support bar and thread the 2-1/2" x 3/8" slotted bolts through the bar and spacer and into the table frame, securing the guardrail in place.

To lower or raise the guardrails:

To lower, lift up slightly on the guardrail to disengage the locking pins. Keeping slight upward pressure on the rail, slide the guardrail toward the head end of the table.

To raise, lift up on the guardrail as you slide it toward the foot end of the table and lower it into place. Ensure the locking pins engage the rail in the vertical position.

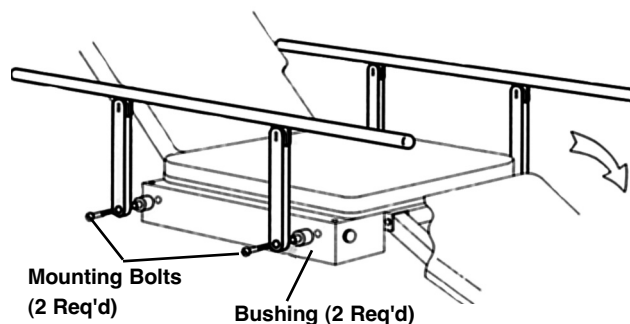


Figure 8. Mounting the siderails.

### Fold-Down Side Rails (056-619) (For tables with serial numbers less than 270291-512)

(See Figure 9.)

To mount the siderails:

1. Position the side rails on the table mounting brackets so that they fold down toward the patient's legs. The spacers should be inserted into the side rail holes, the bolts are then screwed through the rail and into the bracket. Make

sure the bolts are secure but not overtightened to the point that they might inhibit the rails from pivoting.

2. To lower either side rail, release the lock mechanism by lifting up on the center of the rail. Lower the rail into position.

3. To raise either side rail, lift up on the rail until it is fully raised. Lower the rail slightly to engage the locked position.

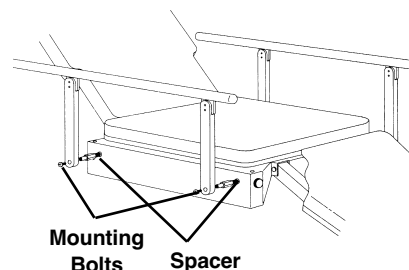


Figure 9. Fold Down side rails.

### Stirrups (056-608)

(For tables with serial numbers greater than 270291-512)

(See Figure 10.)

To mount the Stirrups on the table:

1. Loosen the tightening knob located outside each mounting hole. Insert the bent rods into the holes with the long end of each rod toward the foot end of the table. Retighten the knobs.
2. Loosen the knobs on the bottom of the stirrups and slide each stirrup onto its bent rod. Position the stirrups as desired and retighten the knobs.
3. To change the height or angle of either stirrup, loosen the tightening knob, reposition the stirrup and retighten the knob.

To position the stirrups for each patient:

- a. Position the patient on the table.
- b. Put the patient's heels into the heelcup of each stirrup.
- c. Adjust the height and angle of the rod.
- d. Adjust the stirrup position on the rod.

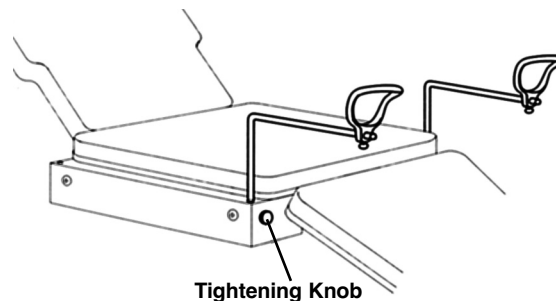


Figure 10. Mounting the stirrups.

**Stirrups (056-608)**  
**(For tables with serial numbers less than 270291-513)**  
 (See Figure 11.)

To mount the Stirrups on the table:

1. Place the rods into the holes in the stirrup mounting brackets. Adjust the rod height with the tightening knobs.

**NOTE:** The portion of the rod with a flat edge should be on the bottom of the horizontal rod.

3. Loosen the knobs on the bottom of the stirrups and slide them onto the horizontal rods. The knobs can be tightened at the desired position.
4. To position the stirrups for each patient:
  - a. Position the patient on the table.
  - b. Put the patient's heels into the heelcup of each stirrup.
  - c. Adjust the height and angle of the rod.
  - d. Adjust the stirrup position on the rod.

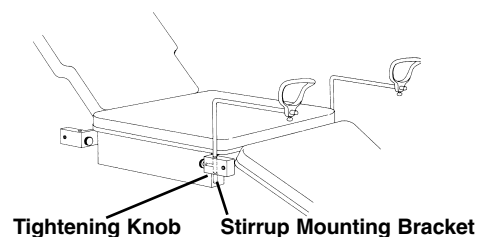


Figure 11. Mounting the Stirrups.

**IV Pole (056-607)**  
 (See Figure 12.)

To mount the IV pole:

1. The IV pole can mount on either the left or right side of the table.
2. Loosen the tightening knob.
3. Slide the end of the IV pole into any one of the mounting holes located on the table frame (near each corner of the seat cushion).
4. Tighten the tightening knob.
5. To adjust the IV pole height, loosen the locking knob near the top of the IV pole. Raise or lower the telescoping pole and retighten the locking knob.

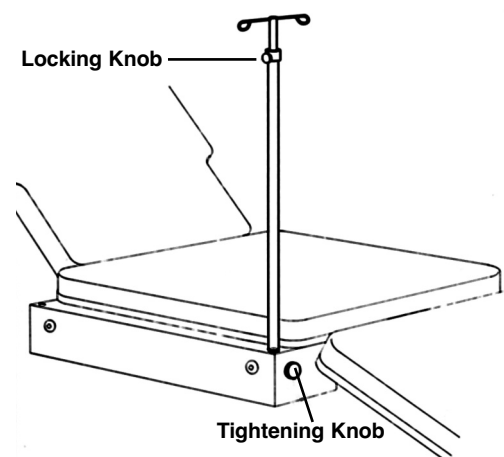


Figure 12. Mounting the IV pole.

**Paper Dispenser (056-610) and Paper Cutter (056-611)**  
**(Paper Cutter included with 056-610)**  
 (See Figure 13.)

To mount the Paper Dispenser and Paper Cutter:

1. Raise the table back to its highest point.
2. Using the supplied mounting screws, mount the two black mounting brackets at the top of the table back. Position the brackets so the angle is toward the outside of the table. The distance between screw holes should be 17", center to center, providing a distance of 18" total for the paper holder bar.
3. Place the paper rod through the paper roll and mount between the brackets.
4. Pull the paper down over the table and feed under the optional paper cutter strap (#056-611).

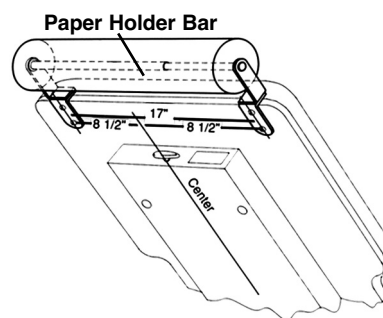
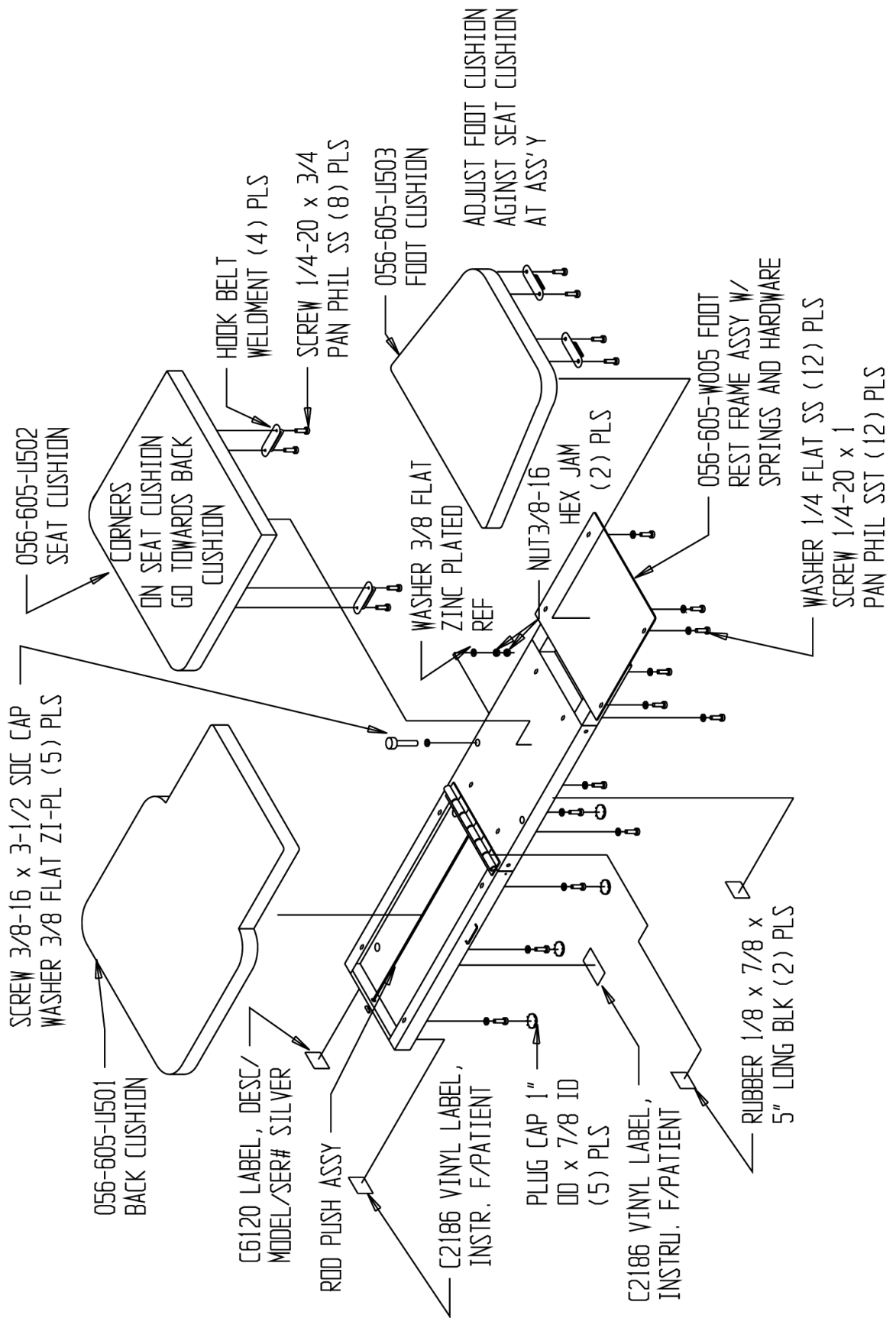


Figure 13. Installing the Paper Dispenser.

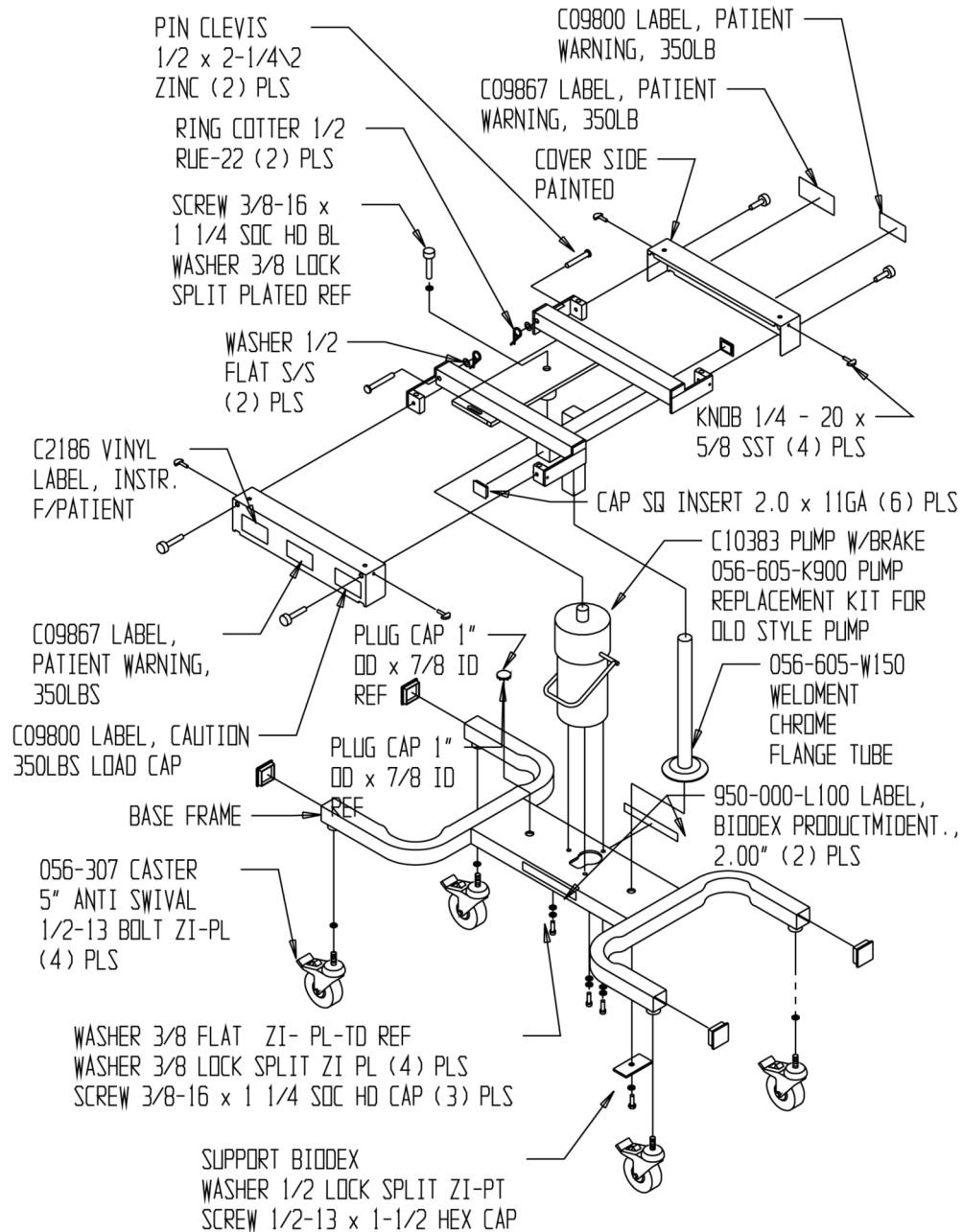
# 056-605 BASIC ULTRASOUND TABLE

ULTRASOUND BL056-605



# 056-605 BASIC ULTRASOUND TABLE

ULTRASOUNDTBL056-605



Certified Quality Management System

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